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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO 2092	
09/838,463	04/19/2001	Wadood Hamad	IP-6084		
2000	590 12/30/2002 CHONG & FLAHERT	EXAMINER			
825 THIRD AVE 30TH FLOOR			ALVO, MARC S		
NEW YORK,	NY 10022-7519		ART UNIT	PAPER NUMBER	
			1731	8	
			DATE MAILED: 12/30/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

				49		
	Application N	ю.	Applicant(s)			
	09/838,463		HAMAD ET AL.			
Office Action Summary	Examiner		Art Unit			
	Steve Alvo		1731			
The MAILING DATE of this communic Period for Reply	ation appears on the co	ver sheet with the c	orrespondence ac	idress		
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply w - Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). Status	CATION. f 37 CFR 1.136(a). In no event, hication. days, a reply within the statutory utory period will apply and will expend the application.	owever, may a reply be tim minimum of thirty (30) day bire SIX (6) MONTHS from on to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).	ely. communication.		
1) Responsive to communication(s) file	d on <u>22 October 2002</u> .					
2a)⊠ This action is FINAL . 2	b) This action is no	n-final.				
Since this application is in condition closed in accordance with the practic Disposition of Claims	for allowance except fo ce under <i>Ex parte Qua</i> y	r formal matters, pr le, 1935 C.D. 11, 4	rosecution as to t 453 O.G. 213.	he merits is		
4)⊠ Claim(s) <u>10-24</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are	e withdrawn from consid	leration.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>10-15 and 17-23</u> is/are reject	ted.					
7) Claim(s) 16 and 24 is/are objected to						
8) Claim(s) are subject to restrict	ion and/or election requ	irement.				
Application Papers						
9) The specification is objected to by the						
10) The drawing(s) filed on is/are: a						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
			oved by the Exami	ner.		
If approved, corrected drawings are requ		action.				
12) The oath or declaration is objected to	by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim t	for foreign priority unde	· 35 U.S.C. § 119(a	a)-(d) or (t).			
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority of						
2. Certified copies of the priority of						
 3. Copies of the certified copies of application from the Internation * See the attached detailed Office action 	ational Bureau (PCT Ru	le 17.2(a)).		l Stage		
14)☐ Acknowledgment is made of a claim fo				al application).		
a) The translation of the foreign land	guage provisional appli	cation has been red	ceived.			
Attachment(s)	-					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO-1449) Pa 	ro-948) 5)		y (PTO-413) Paper N Patent Application (P			

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10, 11, 13-15, 17, 19, 20 and 23 are rejected under 35 U.S.C. 103(a) as obvious over CHASE '403 in view of SETH et al (1975 article) or SETH et al (1993 article) or SETH.

CHASE '403 teaches using empirical methods and techniques of regression analyses to determine functional relationships between material properties and the strength of the paper for a grade of paper (column 14, lines 29-34). SETH et al (1975 article) or SETH et al (1993 article) or SETH teaches that fractional toughness measurements can be used to determine the strength of paper. It would have been obvious that the regression analyses to determine functional relationships between material properties of CHASE '403 could be related the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as the fracture toughness is a measure of the paper strength. See Figure 1 of CHASE '403 for using caliper, basis weight, moisture (humidity), additives (column 9, line 35) and softwood ratio as the variables of CHASE '403. See CHASE '403 for monitoring the variables after a grade is identified and then providing output signals to control the strength or the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH.

Claims 12, 16, 18, 21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over CHASE '403 in view of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as applied to claim 10 above, and further in view of HART.

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HART teaches automatic control of a paper machine and teaches using many if the same measurements used by CHASE '403, e.g. basis weight, caliper, moisture, and additives (82), (83) and (84) including filler (alum). It would have been obvious to the routineer that alum (filler) could have been one of the additives measured by CHASE '403 in the manner taught by HART.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over CHASE '403 in view of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as applied to claim 10 above, and further in view of PAGE et al.

CHASE '403 teaches controlling the strength during newsprint production (column 15, lines 42-57.PAGE et al teaches that the fracture resistance for different grades can be measured and used to determine which grade (product) is less likely to break during printing. This would represent the best strength for the grade to be to prevent breaks in the pressroom. It would have been obvious to control the variables of CHASE '403 to obtain the strength to prevent breaks as determined by PAGE et al

The argument that AHRENS is not combinable with CHASE '403 as AHRENS is drawn to a brittle material is moot as newly applied of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH are all drawn to paper which is the same material as CHASE '403.

The argument that CHASE '403 does not measure fracture toughness is not convincing as CHASE '403 measures paper strength. The fracture toughness is directly related to the paper strength, as it is a measure of the force needed to rupture the paper. It would have been obvious to use the paper fracture toughness of SETH et al (1975 article)

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or SETH ET AL (1993 article) or SETH for the paper strength measurements of CHASE '403.

The argument that the art does not teach the specific equations of claims 16 and 24 is not convincing as these are routine calculations of the functional relationships of the measured values and would have been obvious to an engineer given the teachings of CHASE '403 and of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH.

The argument that CHASE '403 does not teach measuring the alum and controlling the paper fracture toughness based on the alum measurement is not convincing, as the claims are not so limiting. The claims merely call for the filler to be measured and the paper machine controlled from the filler measurement. Such measurement and control is taught by HART. When filing an "Official" FAX in Group 1730, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file. The "Official" FAX phone numbers for this TC 1700 are:

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Any inquiry concerning this communication or earlier communications from the **primary examiner** should be directed to **Steve Alvo** whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stanley Silverman, can be reached on 703-308-3837.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is (703) 308-0661.

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MSA 12/27/02

STEVE ALVO
PRIMARY EXAMINER
ART UNIT 1731